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Preventive Maintenance

Moisture on the Printer

Users should use the Printer in an environment between 20% and 80% relative humidity. To recover from moisture condensation, turn the Printer Off, and, using the main roller as a reference, wait until the Printer is completely dry before using it again.

Noisy Carriage Bushing

To prevent noisy movement of the carriage, remove aluminum or dust particles from the bushing at the back of the carriage, and from the slider path along which the bushing moves. Lubricate the slider path using the Lubrification Kit (Q5669-60692).

Belt Swelling

To prevent new belts from swelling incorrectly, keep them in their bags with desiccant until you need to install them.

Cleaning the Printer

To maintain the Printer in good operating condition, keep it free of dust accumulation, ink, and other contamination. Cleaning intervals are determined by the Printer environment and by the types of Printer supplies used.

Carriage Assembly Lubrication

To ensure correct operation of the printer you must lubricate the Carriage Assembly whenever any of the following are encountered if:

- The Front Panel displays "Maintenance #1 required".
- There is excessive noise when moving the Carriage Assembly.
- A shut down of the carriage PWM error message appears.
- There are IQ (vertical banding problems).

You should also lubricate the Carriage Assembly whenever you change any of the following service parts:

- The Carriage Rear Bushing.
- The Carriage Assembly.
- The Carriage Rail Oiler.

To lubricate the Carriage Assembly you will require the Lubrification Kit (Q5669-60692). Use the following procedure to lubricate the Carriage Assembly:

1 Use the IPA alcohol (Q6675-60070) and the cleaning cloth to clean the Carriage Rail and the Carriage Slider Rod.

2 Use an Oil Dispenser (Q6675-60062) to lubricate the Carriage Rail and the Carriage Slider Rod.

3 Replace the Carriage Rail Oiler (refer to page 5-120) with the new one contained in the kit and add 2-3 drops of oil to the foam of the Carriage Rail Oiler.

4 Use an Oil Dispenser (Q6675-60062) to lubricate the Carriage Rear Bushing.

General Cleaning

Proper general cleaning should include the following:

To prevent an electric shock, make sure that the Printer is switched OFF and unplugged before any cleaning is performed. Do NOT let any water get inside the Printer.

1 Blow away dust accumulation with compressed air if available.

2 Clean the outer surface of the Printer with a damp sponge or cloth. Use a mild soap and water solution if necessary. Do not use abrasive cleaners.

3 Wipe the Printer dry with a soft lint-free cloth.

Cleaning the Drive Roller and Overdrive

If ink is spilled on the Overdrive, remove the ink immediately. Due to the ink's reflectance, ink on the Overdrive can disrupt the Printer's edge-sensing function. To remove any ink from the Overdrive, perform the following procedure:
Prevent water or other liquids from running onto electrical components or circuits, or through openings in the Electronics Module.

1 Perform the Turn Drive Roller Utility (Refer to Page *3-61*).

2 Open the window and apply any common household cleaning solution (water based only) to a soft, lint-free rag and apply it to the Drive Roller and Overdrive surface while it is rotating. Make sure that you thoroughly clean the Drive Roller and Overdrive surface.

3 Press **Enter** when you have completed the cleaning procedure.

4 Allow the Drive Roller to dry before loading media in to the Printer.

Level of Printer Usage

Normal printer use means 6,000,000 Carriage Cycles (which corresponds to approximately 100,000 A0 prints on average). Under normal usage conditions, it will be approximately 5 years before the printer needs maintenance. If the printer is used more than the normal usage conditions, then it will need maintenance service much more frequently.

One of the EEROM counters is assigned to counting the number of carriage cycles.

	LIFE_VALUE	Maintenance Advice
Belt Cycles	6000000	PMKIT1
Bushings Life	3000000	PMKIT1
Trailing Cable Cycles	3000000	PMKIT1
Scan Axis Cycles	6000000	PMKIT1
Scan Axis Distance Covered	4500000	PMKIT1
Tubes Cycles	6500000	PMKIT1
Service Station Life	450000000	PMKIT2
Left Spittoon Volume	51000000	PMKIT2
Cutter Life	25000	PMKIT3

When these components of the Printer exceed this amount, the front panel displays the following message:

"Maintenance #1 required"

"Maintenance #2 required"

"Maintenance #3 required"

Once one of the maintenance advised messages is displayed, the relevant preventive maintenance kit must be used to replace the most worn parts of the printer. Use the Removal and Installation Chapter of this Service Manual as a guide to replace the necessary parts.

Preventive Maintenance Kits

Preventive Maintenance Kit #1

The Preventive Maintenance Kit #1 is available in the following different versions:

Z2100 (24 inch) P/N Q6675-67019

	Description
Q6675-67020	Carriage Assy SV (with Trailing Cable)
Q6675-60021	Ink Supply Tubes 24 SV
Q5669-60673	Belt 24 SV
Q5669-60674	Scan Axis Motor SV
Q5669-60692	Lubrification Kit SV

Z2100 (44 inch) P/N Q6677-67003:

Part Number	Description
Q6677-67004	Carriage Assy SV (with Trailing Cable)
Q6677-60007	Ink Supply Tubes 44 SV
Q6659-60175	Belt 44 SV
Q5669-60674	Scan Axis Motor SV
Q5669-60692	Lubrification Kit SV

Z3100/Z3100ps (24 inch) P/N Q5669-67050:

Part Number	Description
Q5669-67051	Carriage Assy SV (with Trailing Cable)
Q5669-60671	Ink Supply Tubes 24 SV
Q5669-60673	Belt 24 SV
Q5669-60674	Scan Axis Motor SV
Q5669-60692	Lubrification Kit SV

Z3100/Z3100ps (44 inch) P/N Q6659-67013:

Part Number	Description
Q6659-67014	Carriage Assy SV (with Trailing Cable)
Q6659-60174	Ink Supply Tubes 44 SV
Q6659-60175	Belt 44 SV
Q5669-60674	Scan Axis Motor SV
Q5669-60692	Lubrification Kit SV

Z3200/Z3200ps (24 inch) P/N Q6718-67011:

	Description
Q6718-67012	Carriage Assy 24 inch
Q5669-60681	Trailing Cable
Q6718-67002	Ink Supply Tubes 24 inch
Q5669-60673	Belt 24 SV
Q5669-60674	Scan Axis Motor SV
Q5669-60692	Lubrification Kit SV

Z3200/Z3200ps (44 inch) P/N Q6719-67002:

Part Number	Description
Q6719-67003	Carriage Assy 44 inch
Q6659-60177	Trailing Cable
Q6719-67001	Ink Supply Tubes 44 inch
Q6659-60175	Belt 44 SV
Q5669-60674	Scan Axis Motor SV
Q5669-60692	Lubrification Kit SV

After replacing a preventive maintenance kit, make sure to reset the relevant life counter. For the Reset Life Counters procedure, refer to page 3-66.

Preventive Maintenance Kit #2

The Preventive Maintenance Kit #2 is available in the following different versions:

All versions (24 inch/44 inch) P/N Q6718-67026

Part Number	Description
Q6718-67025	Service Station
Q5669-67049	Left spittoon

After replacing a preventive maintenance kit, make sure to reset the relevant life counter. For the Reset Life Counters procedure, refer to page 3-66.

Preventive Maintenance Kit #3

The Preventive Maintenance Kit #3 is available in the following different versions:

All versions (24 inch/44 inch) P/N Q5669-60722

	Description
Q5669-60713	Cutter Assembly SV

After replacing a preventive maintenance kit, make sure to reset the relevant life counter. For the Reset Life Counters procedure, refer to page 3-66.